

### Abstract of the Invention

The deep-rolling roller head (1) has a flat prismatic body constituted by two outer, nearly rectangular lateral surfaces parallel to each other and at a distance from each other that corresponds to the width of the deep-rolling roller head. The lateral surfaces are enclosed all around by rectangular faces (5, 6) one of which (5) is provided with an installation for the reception of a roller cage (7, 8) in which a deep-rolling roller (7, 8) is supported so as to be freely rotatable. The deep-rolling roller (7, 8) is supported on a guide roller (13) relative to the deep-rolling roller head (1), said guide roller being in turn freely rotatable in the prismatic body (1). The prismatic body of the deep-rolling roller head (1) is constituted by two half bodies (2, 3) connected to each other detachably by means of screws (11, 12) and each of which having only part of the overall width of the deep-rolling roller head (1). The two half bodies (2, 3) are connected to each other by an articulation (4) along the face (5) which is across from the face (6) provided for the reception of the roller cage (7, 8).